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SNOWPLOW PREP PACKAGE (VYU)

The chart on the page SP-4 shows GMTG and General Motors approved models available with snowplow prep package-option VYU.

GM recommends that when a snowplow is mounted on a vehicle, only one passenger should accompany the driver. More than one passenger may exceed Front Gross Axle Weight Ratings.

Prior to installing a front mounted snowplow, the following process should be followed and necessary information obtained.

- Establish vehicle curb weight
- Establish chassis manufacturer's front and rear axle weight ratings
- Chevrolet and GMC truck dealers can provide availability, specifications, Gross Vehicle Weight Ratings (GVWR), and Front and Rear Gross Axle Weight Ratings (FGAWR/RGAWR). For vehicles already built, this information can be found on the certification label installed on driver's door/door frame or provided on the cover of the Incomplete Vehicle Document.

The following information should be obtained and provided by the manufacturers of snowplows and salt spreaders:

- Specifications, weights and center of gravity data
- Vehicle installation guidelines and instructions
- Calculation of weight distribution for the front and rear axles

The loaded vehicle with driver, passenger, aftermarket accessories, snowplows, spreader, and cargo must not exceed the Gross Vehicle Weight Rating (GVWR), and Front and Rear Gross Axle Weight Ratings. In addition, the completed curb weight vehicle, with all installed aftermarket accessories, snowplow, and spreader, and with 400 lbs. for vehicles less than 10,000 lbs. and 500 lbs. for vehicles greater than 10,000 lbs. distributed in the driver-passenger area of the vehicle, must have a center of gravity location that is located within the trapezoid formed by the coordinates A, B, C, D, H1 & H2, plus it must be to the rear of vertical line E and forward of vertical line F as defined in the ALLOWABLE CENTER OF GRAVITY CHARTS. If the center of gravity location does not fall within the specified trapezoid, ballast weight may be required to shift the center of gravity location until it falls within the specified trapezoid.

The snowplow manufacturer and the installer of the aftermarket equipment should determine the amount of rear ballast required to ensure that the vehicle, with the attached snowplow and aftermarket equipment, complies with the Allowable Center of Gravity Trapezoid and the resulting front and rear weight distribution ratio as defined in the Allowable Center of Gravity Charts published in this manual.

Special Notice

Ballast Compensating Weight

The use of rear ballast weight may be required to prevent exceeding the Gross Axle Weight Rating of the front axle. The use of rear ballast weight may be required to ensure that the center of gravity location of the completed vehicle, with the attached snowplow and other installed equipment, complies with the Allowable Center of Gravity Trapezoid and the resulting front and rear weight distribution ratio, even though the actual front weight may be less than the Gross Axle Weight Rating of the front axle. In either case, the rear ballast weight should be securely attached in the cargo box or behind the rear axle of the vehicle in a manner which prevents it from moving during driving and stopping.

TORSION BAR ADJUSTMENT

To help avoid personal injury, refer to Z-height setting procedure before adjusting torsion bars. If torsion bars are adjusted for aftermarket equipment, be sure to return them to specification when the equipment is removed. Otherwise, a front shock absorber may dislodge and damage a front brake line. This could result in an accident when minimum stopping distances are required.

'K' – Series Snow Plow Prep Package

		PICKUPS - Single Rear Wheel (SRW)						
Model		K15703	K15903	K25753	K25743	K25903	K25953	K25943
Cab		Regular	Regular	Double	Crew	Regular	Double	Crew
Wheelbase inches		119	133	143.5	153	133	157.5	167
Pickup Box length feet / Cab to Axle length inches		6.5	8	6.5	6.5	8	8	8
GVWR lb.		6800	7000	9500/10k*	9500/10k*	9500/9900*	9500/10k*	9900/10k*
GAWR lb. -Frt.		3950	3950	4400/5200*	4800/5200*	4400/5200*	4800/5600*	4800/5200*
Engine Availability with VYU:	opt. code							
Vortec 4.3L V8 SFI Flex Fuel	LV3	S	S	N/A	N/A	N/A	N/A	N/A
Vortec 5.3L V8 SFI Flex Fuel	L83	A	A	N/A	N/A	N/A	N/A	N/A
Vortec 6.0L V8 SFI Flex Fuel	LC8	N/A	N/A	S	S	N/A	S	S
Vortec 6.0L V8 Variable Timing SFI Flex Fuel	L96	N/A	N/A	S	S	S	S	S
Vortec 6.2L V8 SFI	L86	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Duramax 6.6L V8 Diesel	L5P	N/A	N/A	A	A	A	A	A
Base (B) Equipment Includes:								
Battery 600 CCA (Gasoline Engines)		S	S	S	S	S	S	S
Dual Batteries 730 CCA (6.6L Diesel Engine)	TUV	N/A	N/A	A	A	A	A	A

Provisions for Rear Back-Up Lighting								
Front Tow Hooks	V76	S	S	S	S	S	S	S
Floor Covering HD Rubber - Std. on Work Truck / Base without YE9	BG9	B & A	B & A	B & A	B & A	B & A	B & A	B & A
Snow Plow Prep Pkg. Includes:	**VYU**							
Increased Front Spring rate 4WD	F60	S	S	S	S	S	S	S
Air cleaner, high-capacity	K47	S	S	S	S	S	S	S
External Eng. Oil Cooler	KNP	A	A	R	R	R	R	R
Alternator 170 Amp(150 w/o VYU)- Gas Engines	KW7	S	S	N/A	N/A	N/A	N/A	N/A
Alternator 220 Amp(150 w/o VYU)- Gas Engines	KW5	N/A	N/A	S	S	S	S	S
Alternators - Dual 150 Amp - Diesel Engines	KH5	N/A	N/A	S	S	S	S	S
Provision for Roof Mtd. Emergency Light	TRW	S	S	S	S	S	S	S
Transmission Cooler (air to oil) Auto only	KNP	S	S	S	S	S	S	S
***42mm Hole FOD with Rubber Grommet								
Fwd. Lamp Harness with In-Line Connector								
Mntg. Location for Snow Plow Controls								
Suggested Optional Equipment :								

Battery 730 CCA - Gasoline Engines	6C5	A	A	A	A	A	A	A
3.73 Rear Axle Ratio	GT4	A	A	"B" Gas & "A" Diesel	B	B	B	B
4.10 Rear Axle Ratio	GT5	A	A	A	A	A	A	A
Skid Plate, "Off Road" - Included with Z71	NZZ	A & Y	A & Y	A & Y	A & Y	A & Y	A & Y	A & Y
Engine Block Heater (Req'd for Canada - opt. Z49)	K05	A	A	A	A	A	A	A
Locking Differential - Included with (NHT) Max Trailering Pack or (PCY) Towing Package or axle ratio GT5	G80							
Rear Window Defogger (N/A with A48 on Ext. & Crew Cabs) (Reqs. C67 AC on Reg. Cabs)	C49	A	A	A	A	A	A	A
Sliding Rear Window not avail. with C49	A48	N/A	N/A	A	A	N/A	A	A
Windshield Washer Fluid System, Heated (Reqs. Opt. YE9 or SLT)	XA7	A	A	A	A	A	A	A

* = DIESEL / k = x 1000 / s = SRW / d = DRW

		PICKUPS --- Single(s) & Dual(d) Rear Wheels				Chassis---Cabs		
Model		K35903	K35743	K35953	K35943	K36003	K36043	K36403
Cab		Regular	Crew	Double	Crew	Regular	Crew	Regular
Wheelbase inches		133	167	157.5	167	137	161.5	161.5
Pickup Box length feet / Cab to Axle length inches		8	6.5	8	8	60" CA	60" CA	80" CA
GVWR lb.		10700/11400*s	10800/11500*s	11000/11600*s	11000/11600*s	13,200	13,200	13,200
GAWR lb. -Frt.		4400/5200*	4800/5600*	4800/5600*	4800/5600*	4400/5200*	4800/5600*	5200/5600*
Engine Availability with VYU:	opt. code							
Vortec 4.3L V8 SFI Flex Fuel	LV3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vortec 5.3L V8 SFI Flex Fuel	L83	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vortec 6.0L V8 SFI Flex Fuel	LC8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vortec 6.0L V8 Variable Timing SFI Flex Fuel	L96	S	S	S	S	S	S	S
Vortec 6.2L V8 SFI	L86	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Duramax 6.6L V8 Diesel	L5P	A	A	A	A	A	A	A
Base (B) Equipment Includes:								
Battery 600 CCA (Gasoline Engines)		S	S	S	S	B	B	B
Dual Batteries 730 CCA (6.6L Diesel Engine)	TUV	A	A	A	A	A	A	A
Provisions for Rear Back-Up Lighting								

Front Tow Hooks	V76	S	S	S	S	S	S	S
Floor Covering HD Rubber - Std. on Work Truck / Base without YE9	BG9	B & A	B & A	B & A	B & A	B & A	B & A	B & A
Snow Plow Prep Pkg. Includes:	**VYU**							
Increased Front Spring rate 4WD	F60	S	S	S	S	S	S	S
Air cleaner, high-capacity	K47	S	S	S	S	S	S	S
External Eng. Oil Cooler	KNP	S	S	S	S	S	S	S
Alternator 170 Amp(150 w/o VYU)- Gas Engines	KW7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alternator 220 Amp(150 w/o VYU)- Gas Engines	KW5	S	S	S	S	S	S	S
Alternators - Dual 150 Amp - Diesel Engines	KH5	S	S	S	S	S	S	S
Provision for Roof Mtd. Emergency Light	TRW	S	S	S	S	S	S	S
Transmission Cooler (air to oil) Auto only	KNP	S	S	S	S	S	S	S
***42mm Hole FOD with Rubber Grommet								
Fwd Lamp Harness with In-Line Connector								
Mntg. Location for Snow Plow Controls								
Suggested Optional Equipment :								
Battery 730 CCA - Gasoline Engines	6C5	A	A	A	A	A	A	A
3.73 Rear Axle Ratio	GT4	B	B	B	B	B	B	B
4.10 Rear Axle Ratio	GT5	A	A	A	A	A	A	A
Skid Plate, "Off Road" - Included with Z71	NZZ	A & Y	A & Y	A & Y	A & Y	A & Y	A & Y	A & Y

Engine Block Heater (Req'd for Canada - opt. Z49)	K05	A	A	A	A	A	A	A
Locking Differential - Included with (NHT) Max Trailering Pack or (PCY) Towing Package or axle ratio GT5	G80							
Rear Window Defogger (N/A with A48 on Ext. & Crew Cabs) (Reqs. C67 AC on Reg. Cabs)	C49	A	A	A	A	A	A	A
Sliding Rear Window not avail. with C49	A48	N/A	A	A	A	A	A	A
Windshield Washer Fluid System, Heated (Reqs. Opt. YE9 or SLT)	XA7	A	A	A	A	A	A	A

* = DIESEL / k = x 1000 / s = SRW / d = DRW

CMVSS and FMVSS

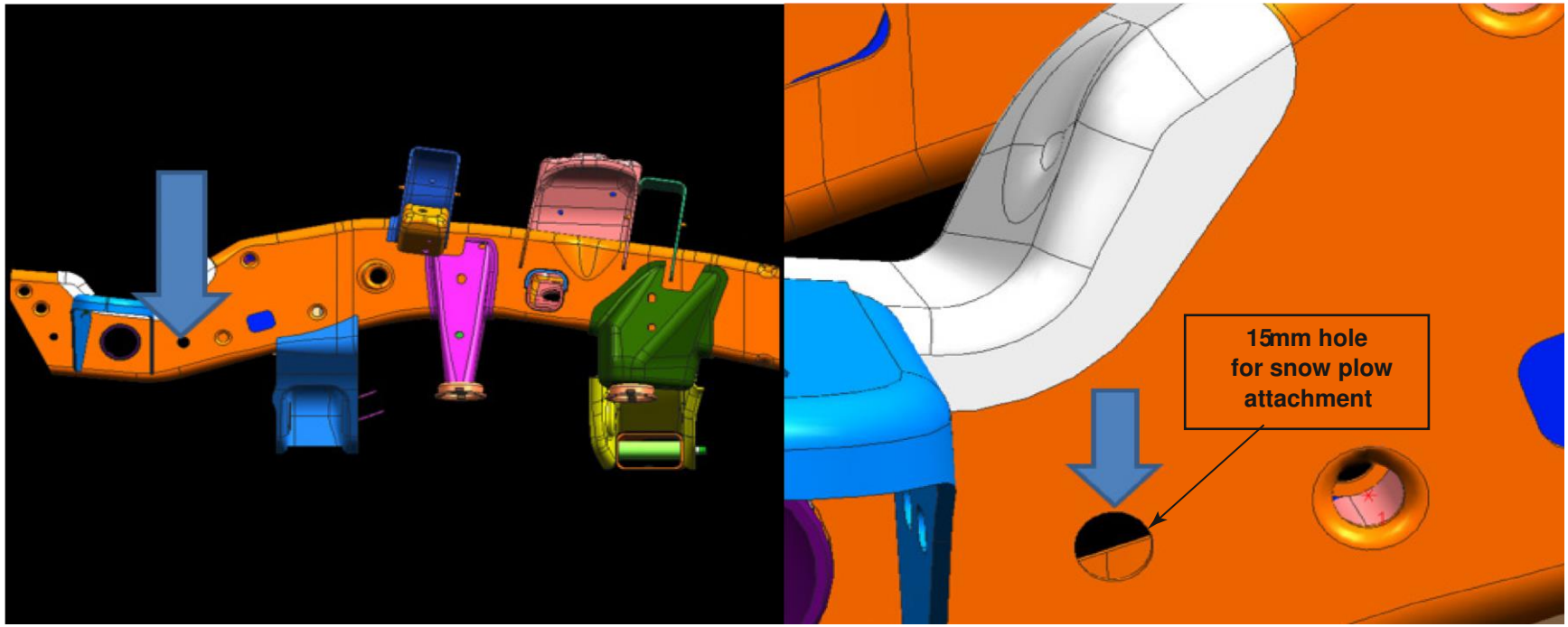
Compliance of Canadian and Federal Motor Vehicle Safety Standards will be affected by Upfitters adding Snow Control Equipment:

MVSS 105 – Hydraulic brake (Vehicles greater than 3500 kg (7716 lb) GVWR)
MVSS 126 – Electronic Stability Control Systems
MVSS 135 – Light Vehicle Brakes, applies to vehicles 3500 kg (7716 lb) GVWR or less

Note: Generic copies of the General Motor Incomplete Vehicle Documents can be obtained from the website (www.gmupfitter.com) and can be used as a reference guide in the compliance to these standards.

'K' Series Snow Plow Best Practices

1. OEM Steering gear, Suspension and Powertrain Component mounting holes & associated OEM fasteners should not be used to attach Snow Plow Mounting equipment.
2. A suggested allowance of 10 mm minimum clearance to stationary OEM components example: Bumper Asm, Steering Box, Cooling System components is highly recommended. Note these components have varying positional tolerances.
3. A suggested allowance of 20 mm minimum clearance to OEM components subject to movement example: Steering Gear,
4. Suspension (A-Arm, Axle, Strut, & Stab Bar asms.) at full jounce is highly recommended. Note these components have varying positional tolerances.
5. Snow Plow & Associated Mounting Equipment should not exceed front axle available payload rating of vehicle as optioned. Plow Blade height, width & mass should be in accordance with Snow Plow Manufacturers recommended requirements for specific vehicle.



'K' Series Snow Plow Applications – Max. Plow/Hardware Weights

K Models - Four Wheel Drive Pickups

Body Style	Engine RPO	Engine Type	15	25	35 SRW	35 DRW
			FGAWR with VYU			
703	LV3	Gas	3950	-	-	-
	L83	Gas	3950	-	-	-
903	LV3	Gas	3950	-	-	-
	L83	Gas	3950	-	-	-
HD 903	L96	Gas	-	5200	5600	5600
	L5P	Diesel	-	6000	6000	6000
HD 753	L96	Gas	-	5200	-	-
	L5P	Diesel	-	6000	-	-
HD 953	L96	Gas	-	5600	5600	5600
	L5P	Diesel	-	6000	6000	6000
HD 743	L96	Gas	-	5200	5600	-
	L5P	Diesel	-	6000	6000	-
HD 943	L96	Gas	-	5600	5600	5600
	L5P	Diesel	-	6000	6000	6000
Body Style	Engine RPO	Engine Type	15	25	35 SRW	35 DRW
703	LV3	Gas	40/500	-	-	-
	L83	Gas	40/500	-	-	-
903	LV3	Gas	40/500	-	-	-
	L83	Gas	40/500	-	-	-
HD 903	L96	Gas	-	100/900	100/1000	100/1000
	L5P	Diesel	-	100/975	100/975	100/925
HD 753	L96	Gas	-	100/775	-	-
	L5P	Diesel	-	100/825	-	-
HD 953	L96	Gas	-	100/1000	100/1000	100/1000
	L5P	Diesel	-	100/775	100/800	100/775
HD 743	L96	Gas	-	100/725	100/1000	-
	L5P	Diesel	-	100/775	100/800	-
HD 943	L96	Gas	-	100/950	100/950	100/925
	L5P	Diesel	-	100/700	100/725	100/700

Notes:

100/xxx = 100lbs maximum of permanently attached snow plow mounting hardware and /xxx lbs. maximum of removable snow plow blade and blade hardware.

Maximum plow weights based on a vehicle with average manufacturer option content and 150lbs each for driver and one additional front seat occupant.

Additional equipment and occupants can reduce maximum plow weight.

Rear compensating weight may be required to maintain front axle weight below 65% of total vehicle weight when equipped with snow plow, consult your snow plow manufacturer for specific compensating weight recommendation.

VYU is offered on incomplete vehicles, please consult Upfitter for recommended maximum plow weights.